CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 23–32

A

Akre, R. D., 23:215–38
Allan, S. A., 32:297–316
Alstad, D. N., 27:369–84
Altieri, M. A., 29:383–402
Altner, H., 30:273–95
Ananthakrishnan, T. N., 24:159–83
Andersen, S. O., 24:29–61
Anderson, N. H., 24:351–77
Asman, S. M., 26:289–318

B

Baker, H. G., 28:407–53
Baker, R. R., 28:65–89
Balashov, Yu. S., 29:137–56
Barfield, C. S., 28:319–35
Baron, R. L., 26:29–48
Beck, S. D., 28:91–108
Beckage, N. E., 30:371–413
Bedford, G. O., 23:125–49; 25:309–39
Beeman, R. W., 27:253–81
Bellotti, A., 23:39–67
Bentzien, M., 26:233–58
Berg, C. O., 23:239–58
Berlocher, S. H., 29:403–33
Berry, S. J., 27:205–27
Blomquist, G. J., 27:149–72
Blum, M. S., 32:381–413
Bownes, M., 31:507–31
Brader, L., 24:255–54
Bradley, T. J., 32:439–62
Brittain, J. E., 27:119–47
Brogdon, W. G., 32:145–62
Bronson, L., 26:345–71
Brown, A. W. A., 25:xi–xxvii
Brown, H. P., 32:253–73
Brown, K. S. Jr., 26:427–56
Brown, T. M., 32:145–62
Burkholder, W. E., 30:257–72
Bush, G. L., 29:471–504
Byers, G. W., 28:203–28

C

Caltagirone, L. E., 26:213–32
Carlson, S. D., 24:379–416
Catts, E. P., 27:313–38
Chapman, R. F., 31:479–505
Chen, P. S., 29:233–55
Cheng, L., 30:111–35
Chi, C., 24:379–416
Chiang, H. C., 23:101–23
Claridge, M. F., 30:297–317
Cochran, D. G., 30:29–49
Cohen, E., 32:71–93
Corbet, P. S., 25:189–217
Coulson, R. N., 24:417–47; 32:415–37
Crossley, D. A. Jr., 31:177–94

D

Daly, H. V., 30:415–38
Daoust, R. A., 31:95–119
Davies, J. E., 23:353–66
Davis, H. G., 23:215–38
Day, J. F., 32:297–316
DeFoliart, G. R., 32:479–505
De Jong, D., 27:229–52
de Kort, C. A. D., 26:1–28
Delcomyn, F., 30:239–56
Denlinger, D. L., 31:239–64
Dettner, K., 32:17–48
Diehl, S. R., 29:471–504
Dixon, A. F. G., 30:155–74
Dohse, L., 28:319–35
Druk, A. Ya., 31:533–45
Duffey, S. S., 25:447–77
Dumser, J. B., 25:341–69
Dunn, P. E., 31:321–39

E

Edman, J. D., 32:297–316
Edmunds, G. F. Jr., 27:369–84
Edwards, J. S., 32:163–79
Ehler, L. E., 23:367–87
Eickwort, G. C., 25:421–46; 27:229–52
Elliott, M., 23:443–59
Evenhuis, N. L., 26:159–81

F

Fahmy, M. A. H., 31:221–37
Farber, P. L., 23:91–99
Ferron, P., 23:409–42
Fletcher, B. S., 32:115–44
Fletcher, D. J. C., 23:151–71; 30:319–43
Frankie, G. W., 23:367–87
Freed, V., 23:353–66
Friedman, S., 23:389–407
Friend, J. A., 31:25–48
Futuyma, D. J., 30:217–38
Fuxa, J. R., 32:225–51

G

Gage, S. H., 26:259–87
Gagné, W. C., 29:383–402
Gamboa, G. J., 31:431–54
Getz, W. M., 27:447–66
Ginsberg, H. S., 25:421–46
Gonçalves, L. S., 23:197–213
Gorham, J. R., 24:209–24
Granger, N. A., 26:1–28
Grégoire, J.-C., 28:263–89
Griffiths, G. W., 25:161–87
Grimstad, P. R., 32:479–505
Gut, L. J., 31:455–78
Gutierrez, A. P., 27:447–66

H

Hackman, R. H., 27:75–95
Hagedorn, H. H., 24:475–505
Halffter, G., 32:95–114
Hardy, J. L., 28:229–62
Hargrove, W. W., 31:177–96
Harpaz, I., 29:1–23
Harris, M. K., 28:291–318
Hassell, M. P., 29:89–114
Haynes, D. L., 26:259–87
Henry, J. E., 26:49–73
Higley, L. G., 31:341–68
Hogue, C. L., 32:181–99
Hoogstraal, H., 26:75–99
Horie, Y., 25:49–71
Houk, E. J., 25:161–87; 28:229–62
Howard, R. W., 27:149–72
Howarth, F. G., 28:365–89
Hoy, M. A., 30:345–70
Huddleston, E. W., 27:283–311
Hutchins, S. H., 31:341–68

I

Ikeda, T., 29:115–35
Illies, J., 28:391–406
Iwantsch, G. F. 25:397–419

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 23–32

A

Akre, R. D., 23:215–38
Allan, S. A., 32:297–316
Alstad, D. N., 27:369–84
Altieri, M. A., 29:383–402
Altner, H., 30:273–95
Ananthakrishnan, T. N., 24:159–83
Andersen, S. O., 24:29–61
Anderson, N. H., 24:351–77
Asman, S. M., 26:289–318

B

Baker, H. G., 28:407–53
Baker, R. R., 28:65–89
Balashov, Yu. S., 29:137–56
Barfield, C. S., 28:319–35
Baron, R. L., 26:29–48
Beck, S. D., 28:91–108
Beckage, N. E., 30:371–413
Bedford, G. O., 23:125–49; 25:309–39
Beeman, R. W., 27:253–81
Bellotti, A., 23:39–67
Bentzien, M., 26:233–58
Berg, C. O., 23:239–58
Berlocher, S. H., 29:403–33
Berry, S. J., 27:205–27
Blomquist, G. J., 27:149–72
Blum, M. S., 32:381–413
Bownes, M., 31:507–31
Brader, L., 24:255–54
Bradley, T. J., 32:439–62
Brittain, J. E., 27:119–47
Brogdon, W. G., 32:145–62
Bronson, L., 26:345–71
Brown, A. W. A., 25:xi–xxvii
Brown, H. P., 32:253–73
Brown, K. S. Jr., 26:427–56
Brown, T. M., 32:145–62
Burkholder, W. E., 30:257–72
Bush, G. L., 29:471–504
Byers, G. W., 28:203–28

C

Caltagirone, L. E., 26:213–32
Carlson, S. D., 24:379–416
Catts, E. P., 27:313–38
Chapman, R. F., 31:479–505
Chen, P. S., 29:233–55
Cheng, L., 30:111–35
Chi, C., 24:379–416
Chiang, H. C., 23:101–23
Claridge, M. F., 30:297–317
Cochran, D. G., 30:29–49
Cohen, E., 32:71–93
Corbet, P. S., 25:189–217
Coulson, R. N., 24:417–47; 32:415–37
Crossley, D. A. Jr., 31:177–94

D

Daly, H. V., 30:415–38
Daoust, R. A., 31:95–119
Davies, J. E., 23:353–66
Davis, H. G., 23:215–38
Day, J. F., 32:297–316
DeFoliart, G. R., 32:479–505
De Jong, D., 27:229–52
de Kort, C. A. D., 26:1–28
Delcomyn, F., 30:239–56
Denlinger, D. L., 31:239–64
Dettner, K., 32:17–48
Diehl, S. R., 29:471–504
Dixon, A. F. G., 30:155–74
Dohse, L., 28:319–35
Druk, A. Ya., 31:533–45
Duffey, S. S., 25:447–77
Dumser, J. B., 25:341–69
Dunn, P. E., 31:321–39

E

Edman, J. D., 32:297–316
Edmunds, G. F. Jr., 27:369–84
Edwards, J. S., 32:163–79
Ehler, L. E., 23:367–87
Eickwort, G. C., 25:421–46; 27:229–52
Elliott, M., 23:443–59
Evenhuis, N. L., 26:159–81

F

Fahmy, M. A. H., 31:221–37
Farber, P. L., 23:91–99
Ferron, P., 23:409–42
Fletcher, B. S., 32:115–44
Fletcher, D. J. C., 23:151–71; 30:319–43
Frankie, G. W., 23:367–87
Freed, V., 23:353–66
Friedman, S., 23:389–407
Friend, J. A., 31:25–48
Futuyma, D. J., 30:217–38
Fuxa, J. R., 32:225–51

G

Gage, S. H., 26:259–87
Gagné, W. C., 29:383–402
Gamboa, G. J., 31:431–54
Getz, W. M., 27:447–66
Ginsberg, H. S., 25:421–46
Gonçalves, L. S., 23:197–213
Gorham, J. R., 24:209–24
Granger, N. A., 26:1–28
Grégoire, J.-C., 28:263–89
Griffiths, G. W., 25:161–87
Grimstad, P. R., 32:479–505
Gut, L. J., 31:455–78
Gutierrez, A. P., 27:447–66

H

Hackman, R. H., 27:75–95
Hagedorn, H. H., 24:475–505
Halffter, G., 32:95–114
Hardy, J. L., 28:229–62
Hargrove, W. W., 31:177–96
Harpaz, I., 29:1–23
Harris, M. K., 28:291–318
Hassell, M. P., 29:89–114
Haynes, D. L., 26:259–87
Henry, J. E., 26:49–73
Higley, L. G., 31:341–68
Hogue, C. L., 32:181–99
Hoogstraal, H., 26:75–99
Horie, Y., 25:49–71
Houk, E. J., 25:161–87; 28:229–62
Howard, R. W., 27:149–72
Howarth, F. G., 28:365–89
Hoy, M. A., 30:345–70
Huddleston, E. W., 27:283–311
Hutchins, S. H., 31:341–68

I

Ikeda, T., 29:115–35
Illies, J., 28:391–406
Iwantsch, G. F. 25:397–419

J

Jackai, L. E. N., 31:95–119
Janes, N. F., 23:443–69
Jay, S. C., 31:49–65
Jeanne, R. L., 25:371–96

K

Kaneshiro, K. Y., 28:161–78
Keeley, L. L., 23:329–52
Keh, B., 30:137–54
Kevan, P. G., 28:407–53
Kiritani, K., 24:279–312
Kirschbaum, J. B., 30:51–70
Knutson, L., 23:329–58
Kobayashi, F., 29:115–35
Kogan, M., 32:507–38
Kosztarab, M., 24:1–27
Kramer, L. D., 28:229–62
Krantz, G. W., 24:121–58
Kristensen, N. P., 26:135–57
Krivolutsky, D. A., 31:533–45
Kunkel, J. G., 24:475–505

L

Labeyrie, V., 23:69–89
Lacey, L. A., 31:265–96
Lange, W. H., 26:345–71; 32:341–60
Langley, P. A., 23:283–307
Larsen-Rapport, E. W., 31:145–75
Laverty, T. M., 29:175–99
Lawton, J. H., 28:23–39
Levine, J. F., 30:439–60
Levins, R., 25:287–308
Lindquist, E. E., 24:121–58
Liss, W. J., 31:455–78
Lloyd, J. E., 28:131–60
Lockley, T., 29:299–320
Loftus, R., 30:273–95

M

Ma, M., 30:257–72
Mackay, R. J., 24:185–208
Marks, E. P., 25:73–101
Masaki, S., 25:1–25
Matteson, P. C., 29:383–402
May, M. L., 24:313–49
McCaffery, A. R., 31:479–505
McDonald, P. T., 26:289–318
McKenzie, J. A., 32:361–80
McLintock, J., 23:17–37
Merritt, R. W., 25:103–32
Metcalf, R. L., 25:219–56
Miller, D. R., 24:1–27
Mitchell, R., 26:373–96
Morse, R. A., 27:229–52
Mumford, J. D., 29:157–74

N

Norton, G. A., 29:157–74

O

OConnor, B. M., 27:385–409
Opler, P., 26:233–58
Owens, E. D., 28:337–64
Owens, J. C., 27:283–311

P

Page, R. E. Jr., 31:297–320
Page, W. W., 31:479–505
Parrella, M. P., 32:201–24
Parker, G. A., 23:173–96
Pastoels, J. M., 28:263–89
Pedigo, L. P., 31:341–68
Petersen, C. E., 28:455–86
Peterson, S. C., 30:217–38
Pfennig, D. W., 31:431–54
Piesman, J., 30:439–60
Pinder, L. C. V., 31:1–23
Plowright, R. C., 29:175–99
Potter, C., 23:443–69
Powell, J. A., 25:133–59
Prestwich, G. D., 29:201–32
Pritchard, G., 28:1–22
Prout, T., 26:289–318
Pyle, R., 26:233–58

R

Rabinovich, J. E. 26:101–33
Radcliffe, E. B., 27:173–204
Randolph, S. E., 30:197–216
Reeve, H. K., 31:431–54
Reeves, W. C., 28:229–62
Ribeiro, J. M. C., 32:463–78
Richards, A. G., 23:309–28
Richardson, A. M. M., 31:25–48
Riechert, S. E., 29:299–320
Robinson, M. H., 27:1–20
Rogers, D. J., 30:197–216
Rose, D. J. W., 23:259–82
Ross, K. G., 30:319–43
Rothfels, K. H., 24:507–39
Roush, R. T., 32:361–80
Rowell-Rahier, M., 28:263–89
Russell, L. M., 23:1–15

S

Saunders, M. C., 32:415–37
Scharrer, B., 32:1–16
Schmidt, J. O., 27:339–68
Schowalter, T. D., 31:177–96
Schuh, R. T., 31:67–93
Scriber, J. M., 26:183–211
Seabrook, W. D., 23:471–85
Seastedt, T. R., 29:25–46
Sedell, J. R., 24:351–77
Sehnal, F., 30:89–109
Singh, S. R., 24:255–78
Slansky, F. Jr., 26:183–211
Smith, R. F., 23:353–66
Sōgawa, K., 27:49–73
Sonenshine, D. E., 30:1–28
Southgate, B. J., 24:449–73
Spielman, A., 30:439–60
Staal, G. B., 31:391–429
Stanford, J. A., 27:97–117
Stark, R. W., 27:479–509
Steffan, W. A., 26:159–81
Stimac, J. L., 28:319–35
Stort, A. C., 23:197–213
Strong, D. R. Jr., 24:89–119
Sullivan, D. J., 32:49–70
Sylvester, E. S., 25:257–86; 30:71–88

T

Tallamy, D. W., 31:369–90
Taylor, L. R., 29:321–57
Tempelis, C. H., 28:179–201
Terriere, L. C., 29:71–88
Thompson, S. N., 31:197–219
Thornhill, R., 28:203–28
Thornton, I. W. B., 30:175–96
Tinsley, T. W., 24:63–87
Tobe, S. S., 23:283–307
Turnipseed, S. G., 32:507–38

U

Undeen, A. H., 31:265–96

V

van Emden, H. F., 24:255–78
Van Schoonhoven, A., 23:39–67
Viggiani, G., 29:257–76
Visser, J. H., 31:121–44

W

Waage, J. K., 29:89–114
Wallace, J. B., 25:103–32
Wallner, W. E., 32:317–40
Wallwork, J. A., 28:109–30
Ward, J. V., 27:97–117
Warren, C. E., 31:455–78
Washino, R. K., 28:179–201
Watanabe, H., 25:49–71
Waters, W. E., 25:479–509
Watts, D. M., 32:479–505
Watts, J. G., 27:283–311
Wehner, R., 29:277–98
Weinstein, L. H., 27:369–84

Welch, S. M., 29:359–81
Westigard, P. H., 31:455–78
Whalon, M. E., 29:435–70
Wharton, G. W., 23:309–28
Whitcomb, R. F., 26:397–425
Wiegert, R. G., 28:455–86
Wiggins, G. B., 24:185–208
Wikel, S. K., 27:21–48
Wille, A., 28:41–64
Williams, S. C., 32:275–95
Wilson, M. L., 25:287–308; 30:439–60
Wirtz, R. A., 29:47–69
Wood, D. L., 27:411–46
Wood, T. K., 31:369–90
Wootton, R. J., 26:319–44

Y

Yamane, A., 29:115–35

Z

Zacharuk, R. Y., 25:27–47
Zeledón, R., 26:101–33

CHAPTER TITLES, VOLUMES 23–32

ACARINES, ARACHNIDS, AND OTHER ARTHROPODS		
Evolution of Phytophagous Mites (Acari)	G. W. Krantz, E. E. Lindquist	24:121–58
Courtship and Mating Behavior in Spiders	M. H. Robinson	27:1–20
Mite Pests of Honey Bees	D. De Jong, R. A. Morse, G. C. Eickwort	27:229–52
Evolutionary Ecology of Astigmatid Mites	B. M. OConnor	27:385–409
Oribatids in Forest Ecosystems	J. A. Wallwork	28:109–30
Pheromones and Other Semiochemicals of the Acari	D. E. Sonenshine	30:1–28
Recent Advances in Genetics and Genetic Improvement of the Phytoseiidae	M. A. Hoy	30:345–70
Biology of Terrestrial Amphipods	J. A. Friend, A. M. M. Richardson	31:25–48
Scorpion Bionomics	S. C. Williams	32:275–95
AGRICULTURAL ENTOMOLOGY		
Mite and Insect Pests of Cassava	A. Bellotti, A. van Schoonhoven	23:39–67
Pest Management in Corn	H. C. Chiang	23:101–23
Agromedical Approach to Pesticide Management	J. E. Davies, R. F. Smith, V. Freed	23:353–66
Integrated Pest Control in the Developing World	L. Brader	24:225–54
Insect Pests of Grain Legumes	S. R. Singh, H. F. van Emden	24:255–78
Pest Management in Rice	K. Kiritani	24:279–312
Changing Role of Insecticides in Crop Protection	R. L. Metcalf	25:219–56
The Cereal Leaf Beetle in North America	D. L. Haynes, S. H. Gage	26:259–87
Insect Pests of Tomatoes	W. H. Lange, L. Bronson	26:345–71
Insect Pests of Potato	E. B. Radcliffe	27:173–204
Rangeland Entomology	J. G. Watts, E. W. Huddleston, J. C. Owens	27:283–311
Integrated Pest Management of Pecans	M. K. Harris	28:291–318
Economics of Decision Making in Pest Management	J. D. Mumford, G. A. Norton	29:157–74
Developments in Computer-Based IPM Extension Delivery Systems	S. M. Welch	29:359–81
Modification of Small Farmer Practices for Better Pest Management	P. C. Matteson, M. A. Altieri, W. C. Gagné	29:383–402
Apple IPM Implementation in North America	M. E. Whalon, B. A. Croft	29:435–70
Insect Pests of Cowpeas	L. E. N. Jackai, R. A. Daoust	31:95–119
Economic Injury Levels in Theory and Practice	L. P. Pedigo, S. H. Hutchins, L. G. Higley	31:341–68
Perspectives on Arthropod Community Structure, Organization, and Development in Agricultural Crops	W. J. Liss, L. J. Gut, P. H. Westigard, C. E. Warren	31:455–78
Improved Detection of Insecticide Resistance Through Conventional and Molecular Techniques	T. M. Brown, W. G. Brogdon	32:145–62
Insect Pests of Sugar Beet	W. H. Lange	32:341–60

Computer-Assisted Decision-Making as Applied to Entomology	R. N. Coulson, M. C. Saunders	32:415–37
Ecology and Management of Soybean Arthropods	M. Kogan, S. G. Turnipseed	32:507–38

APICULTURE AND POLLINATION

The African Bee, *Apis mellifera adansonii*, in Africa	D. J. C. Fletcher	23:151–71
Honey Bee Improvement Through Behavioral Genetics	L. S. Gonçalves, A. C. Stort	23:197–213
Foraging and Mating Behavior in Apoidea	G. E. Eickwort, H. S. Ginsberg	25:421–46
Mite Pests of Honey Bees	D. De Jong, R. A. Morse, G. C. Eickwort	27:229–52
Insects As Flower Visitors and Pollinators	P. G. Kevan, H. G. Baker	28:407–53
Spatial Management of Honey Bees on Crops	S. C. Jay	31:49–65

BEHAVIOR

Evolution of Competitive Mate Searching	G. A. Parker	23:173–96
Evolution of Social Behavior in the Vespidae	R. L. Jeanne	25:371–96
Foraging and Mating Behavior in Apoidea	G. C. Eickwort, H. S. Ginsberg	25:421–46
Courtship and Mating Behavior in Spiders	M. H. Robinson	27:1–20
Bioluminescence and Communication in Insects	J. E. Lloyd	28:131–60
Visual Detection of Plants by Herbivorous Insects	R. J. Prokopy, E. D. Owens	28:337–64
Defense Mechanisms of Termites	G. D. Prestwich	29:201–32
Astronavigation in Insects	R. Wehner	29:277–98
Pheromones and Other Semiochemicals of the Acari	D. E. Sonenshine	30:1–28
Factors Regulating Insect Walking	F. Delcomyn	30:239–56
Pheromones for Monitoring and Control of Stored-Product Insects	W. E. Burkholder, M. Ma	30:257–72
Acoustic Signals in the Homoptera: Behavior, Taxonomy, and Evolution	M. F. Claridge	30:297–317
Host Odor Perception in Phytophagous Insects	J. H. Visser	31:121–44
Convergence Patterns in Subsocial Insects	D. W. Tallamy, T. K. Wood	31:369–90
The Evolution and Ontogeny of Nestmate Recognition in Social Wasps	G. J. Gamboa, H. K. Reeve, D. W. Pfennig	31:431–54
Visual Ecology of Biting Flies	S. A. Allan, J. F. Day, J. D. Edman	32:297–316

BIOGEOGRAPHY
See SYSTEMATICS, EVOLUTION, AND BIOGEOGRAPHY

BIOLOGICAL CONTROL

Biological Control of Insect Pests by Entomogenous Fungi	P. Ferron	23:409–42
Integrated Pest Control in the Developing World	L. Brader	24:255–54
Host Suitability for Insect Parasitoids	S. B. Vinson, G. F. Iwantsch	25:397–419
Natural and Applied Control of Insects by Protozoa	J. E. Henry	26:49–73
Landmark Examples in Classical Biological Control	L. E. Caltagirone	26:213–32
The Chemical Ecology of Defense in Arthropods	J. M. Pasteels, J.-C. Grégoire, M. Rowell-Rahier	28:263–89
Spiders as Biological Control Agents	S. E. Riechert, T. Lockley	29:299–320
Nutrition and In Vitro Culture of Insect Parasitoids	S. N. Thompson	31:197–219
Insect Hyperparasitism	D. J. Sullivan	32:49–70

BIONOMICS
See also ECOLOGY

Biology and Ecology of the Phasmatodea	G. O. Bedford	23:125–49
Biology and Pest Status of Venomous Wasps	R. D. Akre, H. G. Davis	23:215–38
Biology of the Bruchidae	B. J. Southgate	24:449–73
Biology of Odonata	P. S. Corbet	25:189–217
Biology, Ecology, and Control of Palm Rhinoceros Beetles	G. O. Bedford	25:309–39
Biology of *Toxorhynchites*	W. A. Steffan, N. L. Evenhuis	26:159–81
The Rice Brown Planthopper: Feeding Physiology and Host Plant Interactions	K. Sōgawa	27:49–73
Biology of Mayflies	J. E. Brittain	27:119–47
Biology of New World Bot Flies: Cuterebridae	E. P. Catts	27:313–38
Biology of Tipulidae	G. Pritchard	28:1–22
Biology of the Stingless Bees	A. Wille	28:41–64
Biology of the Mecoptera	G. W. Byers, R. Thornhill	28:203–28
The Ecology and Sociobiology of Bumble Bees	R. C. Plowright, T. M. Laverty	29:175–99
Bionomics of the Aphelinidae	G. Viggiani	29:257–76
Population Ecology of Tsetse	D. J. Rogers, S. E. Randolph	30:197–216
Bionomics of the Variegated Grasshopper (*Zonocerus variegatus*) in West and Central Africa	R. F. Chapman, W. W. Page	31:479–505
The Biology of Dacine Fruit Flies	B. S. Fletcher	32:115–44
Biology of *Liriomyza*	M. P. Parrella	32:201–24

ECOLOGY
See also BIONOMICS; BEHAVIOR

The Significance of the Environment in the Control of Insect Fecundity	V. Labeyrie	23:69–89
Ecology of Insects in Urban Environments	G. W. Frankie, L. E. Ehler	23:367–87
Recent Advances in the Study of Scale Insects	D. R. Miller, M. Kosztarab	24:1–27
Ecological Diversity in Trichoptera	R. J. Mackay, G. B. Wiggins	24:185–208
Detritus Processing by Macroinvertebrates in Stream Ecosystems	N. H. Anderson, J. R. Sedell	24:351–77
Filter-Feeding Ecology of Aquatic Insects	J. B. Wallace, R. W. Merritt	25:103–32
Biology of Odonata	P. S. Corbet	25:189–217
Ecological Theory and Pest Management	R. Levins, M. Wilson	25:287–308
Biology, Ecology, and Control of Palm Rhinoceros Beetles	G. O. Bedford	25:309–39
Foraging and Mating Behavior in Apoidea	G. C. Eickwort, H. S. Ginsberg	25:421–46
The Nutritional Ecology of Immature Insects	J. M. Scriber, F. Slansky, Jr.	26:183–211
Insect Conservation	R. Pyle, M. Bentzien, P. Opler	26:233–58
Insect Behavior, Resource Exploitation, and Fitness	R. Mitchell	26:373–96
Thermal Responses in the Evolutionary Ecology of Aquatic Insects	J. V. Ward, J. A. Stanford	27:97–117
Effects of Air Pollutants on Insect Populations	D. N. Alstad, G. F. Edmunds, Jr., L. H. Weinstein	27:369–84
A Perspective on Systems Analysis in Crop Production and Insect Pest Management	W. M. Getz, A. P. Gutierrez	27:447–66
Plant Architecture and the Diversity of Phytophagous Insects	J. H. Lawton	28:23–39
Insect Territoriality	R. R. Baker	28:65–89
Dispersal and Movement of Insect Pests	R. E. Stinner, C. S. Barfield, J. L. Stimac, L. Dohse	28:319–35
Ecology of Cave Arthropods	F. G. Howarth	28:365–89
Energy Transfer In Insects	R. G. Wiegert, C. E. Petersen	28:455–86

The Role of Microarthropods in Decomposition and Mineralization Processes	T. R. Seastedt	29:25–46
Host-Parasitoid Population Interactions	M. P. Hassell, J. K. Waage	29:89–114
Biology of *Halobates* (Heteroptera: Gerridae)	L. Cheng	30:111–35
Structure of Aphid Populations	A. F. G. Dixon	30:155–74
Genetic Variation in the Use of Resources by Insects	D. J. Futuyma, S. C. Peterson	30:217–38
Pheromones for Monitoring and Control of Stored-Product Insects	W. E. Burkholder, M. Ma	30:257–72
Biology of Freshwater Chironomidae	L. C. V. Pinder	31:1–23
Herbivory in Forested Ecosystems	T. D. Schowalter, W. W. Hargrove, D. A. Crossley, Jr.	31:177–96
Dormancy in Tropical Insects	D. L. Denlinger	31:239–64
The Biology of Dacine Fruit Flies	B. S. Fletcher	32:115–44
Arthropods of Alpine Aeolian Ecosystems	J. S. Edwards	32:163–79
Biology of Riffle Beetles	H. P. Brown	32:253–73
Factors Affecting Insect Population Dynamics: Differences Between Outbreak and Non-Outbreak Species	W. E. Wallner	32:317–40

EVOLUTION
See SYSTEMATICS, EVOLUTION, AND BIOGEOGRAPHY

FOREST ENTOMOLOGY

Population Dynamics of Bark Beetles	R. N. Coulson	24:417–47
Forest Pest Management: Concept and Reality	W. E. Waters, R. W. Stark	25:479–509
The Role of Pheromones, Kairomones, and Allomones in the Host Selection and Colonization Behavior of Bark Beetles	D. L. Wood	27:411–46
The Japanese Pine Sawyer Beetle as the Vector of Pine Wilt Disease	F. Kobayashi, A. Yamane, T. Ikeda	29:115–35

GENETICS

Honey Bee Improvement Through Behavioral Genetics	L. S. Gonçalves, A. C. Stort	23:197–213
Recent Advances in the Study of Scale Insects	D. R. Miller, M. Kosztarab	24:1–17
Cytotaxonomy of Black Flies (Simuliidae)	K. H. Rothfels	24:507–39
Field Studies of Genetic Control Systems for Mosquitoes	S. M. Asman, P. T. McDonald, T. Prout	26:289–318
Sexual Selection and Direction of Evolution in the Biosystematics of Hawaiian Drosophilidae	K. Y. Kaneshiro	28:161–78
Potential Implication of Genetic Engineering and Other Biotechnologies to Insect Control	J. B. Kirschbaum	30:51–70
Recent Advances in Genetics and Genetic Improvement of the Phytoseiidae	M. A. Hoy	30:345–70
Imaginal Disc Determination: Molecular and Cellular Correlates	E. W. Larsen-Rapport	31:145–75
Expression of the Genes Coding for Vitellogenin (Yolk Protein)	M. Bownes	31:507–31
Ecological Genetics of Insecticide and Acaricide Resistance	R. T. Roush, J. A. McKenzie	32:361–80

HISTORICAL

Leland Ossian Howard: A Historical Review	L. M. Russell	23:1–15
A Historical Perspective on the Impact of the Type Concept on Insect Systematics	P. Farber	23:91–99
The First Twenty-Five Years of the Annual Review of Entomology: An Overview	A. W. A. Brown	25:xi–xxvii

Frederick Simon Bodenheimer (1897–1959): Idealist, Scholar, Scientist	I. Harpaz	29:1–23
Cultural Entomology	C. L. Hogue	32:181–99
INSECTICIDES AND TOXICOLOGY		
The Future of Pyrethroids in Insect Control	M. Elliot, N. F. James, C. Potter	24:443–69
Changing Role of Insecticides in Crop Protection	R. L. Metcalf	25:219–56
Delayed Neurotoxicity and Other Consequences of Organophosphate Esters	R. L. Baron	26:29–48
Recent Advances in Mode of Action of Insecticides	R. W. Beeman	27:253–81
Induction of Detoxication Enzymes in Insects	L. C. Terriere	29:71–88
Derivatization Techniques in the Development and Utilization of Pesticides	M. A. H. Fahmy	31:221–37
Chitin Biochemistry: Synthesis and Inhibition	E. Cohen	32:71–93
Improved Detection of Insecticide Resistance Through Conventional and Molecular Techniques	T. M. Brown, W. G. Brogdon	32:145–62
Ecological Genetics of Insecticide and Acaricide Resistance	R. T. Roush, J. A. McKenzie	32:361–80
MEDICAL AND VETERINARY ENTOMOLOGY		
Mosquito-Virus Relationships of American Encephalitides	J. McLintock	23:17–37
The Significance for Human Health of Insects in Food	J. R. Gorham	24:209–24
Changing Patterns of Tickborne Diseases in Modern Society	H. Hoogstraal	27:75–99
Chagas' Disease: An Ecological Appraisal With Special Emphasis on Its Insect Vectors	R. Zeledón, J. E. Rabinovich	26:101–33
Immune Responses to Arthropods and Their Products	S. K. Wikel	27:21–48
Biology of New World Bot Flies: Cuterebridae	E. P. Catts	27:313–38
Mosquito Host Bloodmeal Identification: Methodology and Data Analysis	R. K. Washino, C. H. Tempelis	28:179–201
Intrinsic Factors Affecting Vector Competence of Mosquitoes for Arboviruses	J. L. Hardy, E. J. Houk, L. D. Kramer, W. C. Reeves	28:229–62
Allergic and Toxic Reactions to Non-Stinging Arthropods	R. A. Wirtz	29:47–69
Interaction Between Blood-Sucking Arthropods and Their Hosts, and its Influence on Vector Potential	Yu. S. Balashov	29:137–56
Scope and Applications of Forensic Entomology	B. Keh	30:137–54
Ecology of *Ixodes dammini*–borne Human Babesiosis and Lyme Disease	A. Spielman, M. L. Wilson, J. F. Levine, J. Piesman	30:439–60
Microbial Control of Black Flies and Mosquitoes	L. A. Lacey, A. H. Undeen	31:265–96
Role of Saliva in Blood-Feeding by Arthropods	J. M. C. Ribeiro	32:463–78
Advances in Mosquito-Borne Arbovirus/Vector Research	G. R. DeFoliart, P. R. Grimstad, D. M. Watts	32:479–505
MORPHOLOGY		
The Functional Morphology of the Insect Photoreceptor	S. D. Carlson, C. Chi	24:379–416

Ultrastructure and Function of Insect Chemosensilla	R. Y. Zacharuk	25:27–47
Intracellular Symbiotes of the Homoptera	E. J. Houk, G. W. Griffiths	25:161–87
Structure and Function in Tick Cuticle	R. H. Hackman	27:75–95
The Functional Morphology and Biochemistry of Insect Male Accessory Glands and Their Secretions	P. S. Chen	29:233–55
Morphology of Insect Development	F. Sehnal	30:89–109
Ultrastructure and Function of Insect Thermo- and Hygroreceptors	H. Altner, R. Loftus	30:273–95
PATHOLOGY		
The Potential of Insect Pathogenic Viruses as Pesticidal Agents	T. W. Tinsley	24:63–87
Potential Implication of Genetic Engineering and Other Biotechnologies to Insect Control	J. B. Kirschbaum	30:51–70
Microbial Control of Black Flies and Mosquitoes	L. A. Lacey, A. H. Undeen	31:265–96
Ecological Considerations for the Use of Entomopathogens in IPM	J. R. Fuxa	32:225–51
PHYSIOLOGY AND BIOCHEMISTRY		
Reproductive Physiology of Glossima	S. S. Tobe, P. A. Langley	23:283–307
Water Vapor Exchange Kinetics in Insects and Acarines	G. W. Wharton, A. G. Richards	23:309–28
Endocrine Regulation of Fat Body Development and Function	L. L. Keeley	23:329–52
Trehalose Regulation, One Aspect of Metabolic Homeostasis	S. Friedman	23:389–407
Neurobiological Contributions to Understanding Insect Pheromone Systems	W. D. Seabrook	23:471–85
Biochemistry of Insect Cuticle	S. O. Andersen	24:29–61
Insect Thermoregulation	M. L. May	24:313–49
Vitellogenin and Vitellin in Insects	H. H. Hagedorn, J. G. Kunkel	24:475–505
Summer Diapause	S. Masaki	25:1–25
Insect Tissue Culture: An Overview 1971–1978	E. P. Marks	25:73–101
Intracellular Symbiotes of the Homoptera	E. J. Houk, G. W. Griffiths	25:161–87
The Regulation of Spermatogenesis in Insects	J. B. Dumser	25:341–69
Host Suitability for Insect Parasitoids	S. B. Vinson, G. F. Iwantsch	25:397–419
Sequestration of Plant Natural Products by Insects	S. S. Duffey	25:447–77
Regulation of the Juvenile Hormone Titer	C. A. D. de Kort, N. A. Granger	26:1–28
The Rice Brown Planthopper: Feeding Physiology and Host Plant Interactions	K. Sōgawa	27:49–73
Structure and Function in Tick Cuticle	R. H. Hackman	27:75–95
Chemical Ecology and Biochemistry of Insect Hydrocarbons	R. W. Howard, G. J. Bloomquist	27:149–72
Maternal Direction of Oogenesis and Early Embryogenesis in Insects	S. J. Berry	27:205–27
Biochemistry of Insect Venoms	J. O. Schmidt	27:339–68
Insect Thermoperiodism	S. D. Beck	28:91–108
Nitrogen Excretion in Cockroaches	D. G. Cochran	30:29–49
Regulation of Reproduction in Eusocial Hymenoptera	D. J. C. Fletcher, K. G. Ross	30:319–43
Endocrine Interactions Between Endoparasitic Insects and Their Hosts	N. E. Beckage	30:371–413
Imaginal Disc Determination: Molecular and Cellular Correlates	E. W. Larsen-Rapport	31:145–75
Nutrition and In Vitro Culture of Parasitoids	S. N. Thompson	31:197–219
Sperm Utilization in Social Insects	R. E. Page, Jr.	31:297–320
Biochemical Aspects of Insect Immunology	P. E. Dunn	31:321–39

Anti Juvenile Hormone Agents	G. B. Staal	31:391–429
Expression of the Genes Coding for Vitellogenin (Yolk Protein)	M. Bownes	31:507–31
Insects as Models in Neuroendocrine Research	B. Scharrer	32:1–16
Chitin Biochemistry: Synthesis and Inhibition	E. Cohen	32:71–93
Biosynthesis of Arthropod Exocrine Compounds	M. S. Blum	32:381–413
Physiology of Osmoregulation in Mosquitoes	T. J. Bradley	32:439–62
POPULATION ECOLOGY		
Assessing and Interpreting the Spatial Distributions of Insect Populations	L. R. Taylor	29:321–57
SERICULTURE		
Recent Advances in Sericulture	Y. Horie, H. Watanabe	25:49–71
SYSTEMATICS, EVOLUTION, AND BIOGEOGRAPHY		
Biology and Systematics of the Sciomyzidae	C. O. Berg, L. Knutson	23:239–58
Recent Advances in the Study of Scale Insects	D. R. Miller, M. Kosztarab	24:1–27
Biogeographic Dynamics of Insect-Host Plant Communities	D. R. Strong Jr.	24:89–119
Evolution of Phytophagous Mites (Acari)	G. W. Krantz, E. E. Lindquist	24:121–58
Biosystematics of Thysanoptera	T. N. Ananthakrishnan	24:159–83
Evolution of Larval Food Preferences in Microlepidoptera	J. A. Powell	25:133–59
Phylogeny of Insect Orders	N. P. Kristensen	26:135–57
Palaeozoic Insects	R. J. Wootton	26:319–44
The Biology of *Heliconius* and Related Genera	K. S. Brown, Jr.	26:427–56
Changing Concepts in Biogeography	J. Illies	28:391–406
Insect Molecular Systematics	S. H. Berlocher	29:403–33
An Evolutionary and Applied Perspective of Insect Biotypes	S. R. Diehl, G. L. Bush	29:471–504
The Geographical and Ecological Distribution of Arboreal Psocoptera	I. W. B. Thornton	30:175–96
Insect Morphometrics	H. V. Daly	30:415–38
The Influence of Cladistics on Heteropteran Classification	R. T. Schuh	31:67–93
The Evolution and Ontogeny of Nestmate Recognition in Social Wasps	G. J. Gamboa, H. K. Reeve, D. W. Pfennig	31:431–54
Fossil Oribatid Mites	D. A. Krivolutsky, A. Ya. Druk	31:533–45
Chemosystematics and Evolution of Beetle Chemical Defenses	K. Dettner	32:17–48
Biogeography of the Montane Entomofauna of Mexico and Central America	G. Halffter	32:95–114
VECTORS OF PLANT PATHOGENS		
Epidemiology of Maize Streak Disease	D. J. W. Rose	23:259–82
Circulative and Propagative Virus Transmission by Aphids	E. S. Sylvester	25:257–86
The Biology of Spiroplasmas	R. F. Whitcomb	26:397–425
Multiple Acquisition of Viruses and Vector-Dependent Prokaryotes: Consequences on Transmission	E. S. Sylvester	30:71–88